Acid storage cabinets

Advertising to Promote the University

Alcohol (Ethyl)

Auditing services by CPA's

Automotive Accessories

Automotive Rental

Background Checks and Degree

Verifications

Beverage, Alcohol

Bindery Services

Biological agents(see attached list)

Biosafety cabinets

Bonds (other than construction,

performance, labor, and material

bonds)

Breathing Apparatus

Business cards

Cameras Digital, Still & Video (Restricted

from PCard only)

Carpets

CD Recorders (Restricted from PCard

Chairs

Chemical Storage Cabinets

Chemicals (selected chemicals see attached lists)

Computers, CPU's, Sensitive Property (Restricted from PCard only, exception: Micron & Dell contracts)

Conferences, all types – including reservations for conferences or hosted by the Laboratory

Construction work, including on University-owned Buildings (e.g. Campus Buildings: Donner, Hearst, etc.)

Consultants (Expert Technical Assistance)

Contributions & Donations

Controllable property – equip \$5k and above + life expectancy >2 yrs.

Copy machines

Copying (Photo)

Corrosive storage cabinets

Decorative Items

Degree Verifications and Background Checks

Deposits (cylinders, reels, etc.)

Deuterium gas (D2)

Dictating Recorders (Restricted from

PCard only)

Draperies

Drench hoses

Drug Precursors (see attached list)

Duplicating Services

Dust masks (see attached note on dust masks)

DVD Recorders (Restricted from PCard only)

Eavesdropping devices

Electron microscopes

Entertainment expense

Equipment Producing Ionizing and Non-

Ionizing Radiation

Excess materials

Explosives (see attached list)

Eyewashes

Fabrications (based on drawings, etc.)

Family Radio Service

Fasteners, grade 5 and above – hex head

cap screws

Filtering equipment used to control airborne contaminant emissions (e.g.,

HEPA filters)

Fines or penalties caused by willful

misconduct

Fire Extinguishers

Flammable storage cabinets

Food for employees/meetings

Foreign origin, material value >\$2,500 unless previously approved by a Procurement Supervisor

Framing for personal use

Freezers

Fume hoods

Furniture, household, office-quarters, chairs, filling cabinets

Gas cabinets

Gases (see attached list)

Gifts

Glove boxes

Heavy water (D20)

Helium

HEPA Filtered Vacuum cleaners and

attached filtering

Hoods

Hoods, lab fume

Hospitals and related medical services

Housing

Instruments containing radioactive

sealed sources (see attached list)

Insurance (including value declarations)

Intra-University Transactions (UC

Regents Orders)

Journal Reprints

Laminar airflow hoods

Lasers (excluding laser pointers)

License fees

Lobbying costs

Lodging costs

Luxury Items (e.g. leather bound desk accessories, grades above what is absolutely necessary to accomplish the Lab's mission)

Machine tools (e.g. large lathes, etc.)

Memberships in social, dining, or country clubs

Memberships in trade, business and professional organizations (unless included on the Lab's Organizational Membership list –approved by DOE)

Microwave and Radiowave Sources (See attached list)

Narcotics

Office Equipment Repairs (Typewriters, Calculators, etc.)

On-Site Service, repairs etc.,
not included on the
Designated Commercial
Services list and/or in a
hazard work area (restricted
- all construction related
work including fencing,
roofing, carpet, window
replacement, etc.)

Ornamental items (pictures, plants, etc.)

Over the Counter Medications, (aspirin, etc.)

Ozone Depleting Substances (See attached list for Trade/Chemical Name)

Pagers

Permits

Personal Data Assistants /PDA/ all Personal Digital Assistants & Organizers with a PC Connection /Hand Held Computers/ regardless of value (Restricted from PCard only)

Personal Property (items of a personal nature, e.g. microwave oven, coffee pot, radio, refrigerators, etc.)

Personal property for employees (reimbursement due to loss)

Photocopying

Precious metals (gold, iridium, osmium, palladium,

platinum, rhodium, ruthenium, and silver)

Printers (Restricted from PCard only)

Printing equipment

Printing services

Promotional items, memorabilia, models, gifts, and souvenirs

Property, controllable (see controllable property)

Radioactive materials and isotopes (see attached list)

Radio Frequency Spectrum Dependent Devices (portable, mobile, microwave, CB's, family radio service, 2 way radios). Used for communication.

Reactive chemicals (see attached list)

Real Property (land, buildings, lease, purchase or improvements)

Recorders /CD, DVD, Dictating & Video/ (Restricted from PCard only)

Recreational equipment

Refrigerators

Reprints, Journal

Respirators (See attached note on dust masks)

Rigging Equipment (e.g. slings, lifting equipment, etc.)

Royalties on Patents

Safety Shoes

Safety Showers

Sales or exchange of Government property (see Trade-ins)

SANR

Scales, Industrial (Calibration Certification requirements)

Scanners for computers (Restricted from PCard only)

Sensitive Items (Computers, Cameras,
Video Projectors, Printers, Recorders
(CD, DVD, Dictating & Video),
Scanners for Computers, Video
Cameras (TV, Movie & Video),
Personal Data Assistants (PDA's –
hand held computers) (Restricted
from PCard only)

Services (on-site Berkeley Lab) see On-Site Services

Signs containing tritium

Slings

Telecommunications/Telephone
Equipment (e.g. pagers, headsets,

remote access services to Lab) (Restricted from PCard only)

Trade-ins

Training Classes (on-site Berkeley Lab)
Transportation

Travel

UC Regents Orders (Intra-University Transactions)

X-ray equipment including accessory devices

Vacuum cleaners HEPA Filtered and attached filtering

Video Cameras – TV, Movie & Video (Restricted from PCard only)

Video Projectors portable (Restricted from PCard only)

Video Recorders (Restricted from PCard only)

Wireless networking access points

DRUG PRECURSORS

1,2-(Methylenedioxy)-4-(2propenylbenzene (#22)

1,2-(Methylenedioxy)-4-(1propenylbenzene) (#23)

1-alpha-[1-(ethylmethyl

(ethylmethylamino)ethyl]benzylc alcohol (#32)

1-Ethylephedrine (#32)

1-Phenyl2-methylaminopropanol (#33)

1-Phenyl-1-hydroxy-2methylaminopropane (#33)

1-Phenyl-2-keto-propane (#1)

2,4,6-Trihydroxy-primidine (#9)

2-Aminobenzoic Acid (#14)

2-Carbomethoxy-3-tropanone (#21)

2-Keto-3-phenyl-propane (#1)

2-Methylamino-1-phenyl-1-propanol (#33)

2-Methylethylamino-1-phenyl-1-propanol (#32)

2-N-Acetyl-2-aminobenzoic Acid (#11)

2-phenylacetic Acid (#13)

3,4-(Methylenedioxy)-benzene - Any compounds with this in it. (#24)

3,4-(Methylenedioxy)-5-benzaldehyde (#24)

3-(2-aminoethyl)-indole (#27)

4-[2-(Dimethylamino)-1-hydroxyethyl]-1,2-benzenediol (#31)

9,10-didehydro-6-methylergoline-8-betacarboxylic Acid (#4)

- A -

Adrenalin (#18)

Aminobenzoic Acid - Any chemicals with this in it. (#14)

Amino-benzyl alcohol (#18)

Amino-N-acetylbenzoic Acid (#11)

Anthranilamide (#14)

Anthranilic Acid - Any chemicals with this in it, e.g. Anthranilic Ethyl Ester. (#14)

alpha-aminoethyl-3,4dihydroxy-benzyl alcohol (#18)

alpha-hydroxy-betamethylaminopropylbenzene (#33)

alpha-toluene cynide (#29)

alpha-tolunitrile (#29)

alpha-(1-aminoethyl)-benzyl alcohol (#18)

alpha-(3,4-Dihydroxyphenyl)-2dimethylaminoethanol (#31) alpha-[1-

Methylamino)ethyl]benzyl alcohol (#33)

alpha-[1-

Ethylmethylamino)ethyl]ben zenemethanol (#32)

alpha-[1-

(Methylamino)ethyl]benzene methanol (#33)

alpha-[(Dimethylamino)methyl]-3,4-dihydroxy benzylalcohol (#31)

- B -

Barbital (#9)

Barbitone (#9)

Barbituric Acid - Any chemicals listed with Barbituric Acid. (#9)

Benzeneacetonitrile (#29) Benzyl Cyanide (#29) Bromocryptin (#5)

· C -

Chloroephedrine (#33) Chloropseudoephedrine (#35)

- D -

Diethylmalonate (#6) Diethylmalonic Acid (#8) d-Lysergic Acid (#4)

- E -

Ephedrine

Ephedrine - Any chemical with this in it. (#33)

Ergo - Any chemical name with this in it, e.g. Bromo-alphaergocrypt. (#20)

Ergo - Any compounds with this in it. (#30)

Ergonovine Maleate (#30)

Ergot - Any chemical name with this in it, e.g. Bromo-alpha-ergocrypt. (#20)

Ergotamine Tartrate (#5) Ethyl Malonic Acid (#8)

Ethylamine

Ethyl Malonic Acid (#8)

Ethylamine Ethylmalonate (#8) etafedrine (#32)

- H -

Hexahydropyridine (#10)

-1-

Isosafrole (#23)

- L -

LSD (#4) LSD-50 (#4)

Lyserg- (followed by additional chemical names) (#4)

- M -

Malonic Acid Diethyl Ester (#6)

Malonic Acid (#7) Menetryl (#32) Methylamine Morpholine (#15)

methylenedioxy- - Any chemicals with this

in it. (#24)

- N -

Norephedrine (#18) Norpseudoephedrine (#18)

Norpseudoeprine (#18)

Novedrin (#32)

N-Ethylephedrine (#32)

N-Methyladrenaline (#31)

N-Methylephedrine (#31)

N-Methylpseudoephedrine (#33)

n-Acetylanthranilic Acid (#11)

n-Ethylpseudoephedrine

n-(1-phenethyl)-piperidine-4-one

n-(1-phenethyl-4-piperidinyl)-aniline

- 0 -

omega-cyanotoluene (#29)

o-Aminobenzoic Acid (#14)

- P -

Phenylacetic Acid (#13)

Phenylacetone (#1)

Phenylacetonitrile#29)

Phenylethylamine (#18)

Phenylpropanolamine Pheny-2-propanone (#1)

Piperdine-HC1 or Piperdine-HBr (#10)

Piperidine (#10)

Piperonal (#24)

Propanedioic Acid (#7)

Pseudoephedrine

Pseudoephedrine - Any chemical with

this in it. (#35) Propionic Anhydride Pyrolidine (#12)

- S -

Safrole (#22)

Sulfurous Oxychloride (#28)

- T -

Tetrahydropyrrole (#12)

Tetrahydro-1-4-oxazine (#15)

Thionyl Chloride (#28)

Thionyldichloride (#28)

Tropan - Any chemicals with

this in it (#21)

Tropine (#21)

Tropine - Any chemicals with

this in it. (#21)

Tropolone (#21)

Tryptamine Hydrobromide (#27)

Tryptamine Hydrochloride (#27)

Trytamine (#27)

- V -

Veronal (#9)

EH&S - RELATED RESTRICTED ITEMS

LABORATORY SAFETY EQUIPMENT

(**Notification**: John Seabury ext. 6547)

Acid storage cabinets

Biosafety cabinets

Gas cabinets

Glove boxes

Chemical storage cabinets

Corrosive storage cabinets

Hoods (for ventilation)

Fume hoods

Flammable storage cabinets

Freezers (for lab use)

Laminar airflow hoods
Refrigerators (for lab use)

Fume hoods Safety showers

HEPA FILTER CONTAINING DEVICES

(Notification: Betsy MacGowan ext. 2826)

HEPA filters and HEPA filter devices	HEPA filtered vacuum cleaners	

DUST MASKS

(Notification: Betsy MacGowan ext. 2826)

No respiratory protection devices other than disposable dust masks are allowed to be purchased. All other repiratory protection equipment is purchased by the EH&S Industrial Hygiene Group and is distributed to qualified and trained users.

BIOLOGICAL AGENTS AND BIOTOXINS

(Approval: Bruce King ext. 2768)

Restricted "Biological Agents and Biotoxins" include all agents and biotoxins listed below and all Risk Group 3 and 4 biological agents (not listed below). "Agents" include the agent (i.e., organism) and all sub-units (e.g., genetic elements, recombinant nucleic acids) and strains (e.g.,recombinant organisms) of the agents. If needed, risk group classifications for many infectious agents can be found at the American Biological Safety Association web page at http://www.absa.org/resriskgroup.html or sometimes the vendor web page (e.g., ATCC at http://www.atcc.org/TechnicalInfo/HowToReviveCultures.cfm).

HHS NON-OVERLAP SELECT AGENTS & TOXINS

- Crimean-Congo haemorrhagic fever virus
- Coccidioides posadasii
- Ebola viruses
- Cercopithecine herpesvirus 1 (Herpes B virus)
- Lassa fever virus
- Marburg virus
- Monkeypox virus
- Rickettsia prowazekii
- Rickettsia rickettsii
- So. American haemorrhagic fever viruses
 - o Junin
 - Machupo
 - o Sabia
 - o Flexal
 - Guanarito
- Tick-borne encephalitis complex (flavi) viruses
 - Central European tick-borne encephalitis
 - o Far Eastern tick-borne encephalitis
 - Russian spring and summer encephalitis
 - Kyasanur forest disease
 - Omsk hemorrhagic fever
- Variola major virus (Smallpox virus)
- Variola minor virus (Alastrim)
- Yersinia pestis
- Abrin
- Conotoxins
- Diacetoxyscirpenol
- Ricin
- Saxitoxin
- Shiga-like ribosome inactivating proteins
- Tetrodotoxin

USDA HIGH CONSEQUENCE LIVESTOCK PATHOGENS AND TOXINS/ SELECT AGENTS (OVERLAP AGENTS)

- Akabane virus
- African swine fever virus
- African horse sickness virus
- Avian influenza virus (highly pathogenic)
- Blue tongue virus (Exotic)
- Bovine spongiform encephalopathy agent
- Camel pox virus
- · Classical swine fever virus
- Cowdria ruminantium (Heartwater)
- Foot and mouth disease virus
- Goat pox virus
- Lumpy skin disease virus
- Japanese encephalitis virus
- Malignant catarrhal fever virus (Exotic)
- Menangle virus
- Mycoplasma capricolum/ M.F38/M. mycoides capri
- Mycoplasma mycoides mycoides
- Newcastle disease virus (VVND)
- Peste Des Petits Ruminants virus
- Rinderpest virus
- Sheep pox virus
- Swine vesicular disease virus
- Vesicular stomatitis virus (Exotic)

HIGH CONSEQUENCE LIVESTOCK PATHOGENS AND TOXINS/ SELECT AGENTS (OVERLAP AGENTS)

- Bacillus anthracis
- Brucella abortus
- Brucella melitensis
- Brucella suis
- Burkholderia mallei (formerly Pseudomonas mallei)
- Burkholderia pseudomallei (formerly Pseudomonas pseudomallei
- Botulinum neurotoxin producing species of Clostridium
- Coccidioides immitis
- Coxiella burnetii
- Eastern equine encephalitis virus
- Hendra virus
- Francisella tularensis
- Nipah Virus
- Rift Valley fever virus
- Venezuelan equine encephalitis virus
- Botulinum neurotoxin
- Clostridium perfringens epsilon toxin
- Shigatoxin
- Staphylococcal enterotoxin
- T-2 toxin

LISTED PLANT PATHOGENS

- Liberobacter africanus
- Liberobacter asiaticus
- Peronosclerospora philippinensis
- Phakopsora pachyrhizi
- Plum Pox Potyvirus
- Ralstonia solanacearum race 3, biovar 2
- Schlerophthora rayssiae var zeae
- Synchytrium endobioticum
- Xanthomonas oryzae
- Xylella fastidiosa (citrus variegated chlorosis strain)

CLASS I OZONE DEPLETING SUBSTANCES

(Notification: Pat Thorson ext. 5852)

Ozone depleting substances are found in adhesives, coating, inks, foams, aerosols, fire suppression and explosion protection, air conditioning and refrigeration, and solvent cleaning. The following are Class I, Ozone Depleting Substances:

<u>Trade</u> <u>Name</u>	<u>Chemical Name &</u> <u>Synonyms – Trademark Names</u>	<u>Trade</u> <u>Name</u>	<u>Chemical Name &</u> Synonyms – Trademark Names
CFC-11	Trichlorofluoromethane 75-69-4] Aigofrene Type 1; Arcton 9; Electro-CF 11; Eskimon 11; F11; FC 11; Fluorocarbon 11; Fluorotrichloromethane; Freon-11; Frigen 11, Genetron 11; Halocarbon 11; Halon 11; Isceon 131; Isotron 11; Kaltron 11, Khaladon 11; Ledon 11; Monofluorotrichloromethane, Propellent 11, Trichlorofluoromethane; Trichloromonofluoromethane	CFC-112	1,2-Difluorotetrachloroethane [76-12-0] 1,2-Difluoro-1,1,2,2-Tetrachloroethane; Fluorocarbon 112; Freon112, Halocarbon 112; Refrigerant 112; 1,1,2,2- Tetrachlorodifluoroethane; 1,1,2,2-Tetrachloro-1,2-Difluoroethane
CFC-12	Dichlorodifluoromethane [75-71-8] Algofrene Type 2; Arctron 6; Arcton 12; Difluorodichloromethane; Electro-CF12; Eskimon 12; F 12; FC 12; Fluorocarbon 12; Freon-12; Frigen 12; Genetron 12; Halocarbon 12; Halon 122, Isotron 2; Ledon 12; Propellent 12; R-12; Refrigerant 12; Refrigerant R12	CFC-211	Heptachlorofluoropropane [422-78-6 None
CFC- 113	1,1,2-trichloro- 1,2,2-trifluoroethane [76-	CFC-212	Hexachlorodifluoropropane [3182-
113	13-1] Chlorinated Fluorocarbon, Diflon S-3; FC 133; Freon 113; Freon TF (113); Frigen 113 TR-T; Fluorocarbon 113; Genetron 113; Halocarbon 113; Refrigerant 113; Trichlorotrifluoroethane; Trichloro 1,2,2-Trifluoroethane; Trichloro-1,2,2-Trifluoroethane; 1,1,2-Trichlorotrifluoroethane; 1,1,2-Trichlorotrifluoroethane; 1,1,2-Trifluoroethane; 1,2,2-Trifluoroethane; 1,1,2-Trifluoroethane; 1,1,2-Trifluoroethane; 1,1,2-Trifluoroethane		26-1] None
CFC- 114	1,2-Dichlorotetrafluoroethane [76-14-2] Cryofluorane; Dichlorotetrafluoroethane; 1,2-Dichloro- 1,1,2,2-Tetrafluoroethane; Dichloro-1,1,2,2- Tetrafluoroethane; Fluorocarbon 114; Freon 114; Halocarbon 114; Halon 242; Propellant 114; R-114; Refrigerant 114; Refrigerant R114	CFC-213	Pentachlorotrifluoropropane [2354- 06-5] None
CFC- 115	Monochloropentafluoroethane [76-15-3] Chloropentafluoroethane; Fluorocarbon 115; Freon 115; Genetron 115; Halocarbon 115; R-115; Refrigerant R115	CFC-214	Tetrachlorotetrafluoropropane [29255-31-0] None
Halon 1211	Bromochlorodifluoromethane [353-59-3] Chlorodifluorobromomethane	CFC-215	1,2,2-Trichloropentafluoropropane [1599-41-3] Trichloropentafuloropropane
Halon 1301	Bromotrifluoromethane [75-63-8] Fluorocarbon 13B1; Freon 13B1; H-1301; Halocarbon 13B1; R-13B1, Refrigerant 13B1; Refrigerant R13B1; Trifluorobromomethane; Trifluoromethyl Bromide; Trifluoromonobromomethane	CFC-216	1,2-Dichloro-1,1,2,3,3,3,- hexafluoropropane [661-97-2] 1,2-Dichlorohexafluoropropane

Halon 1,2 Dibromotetrafluoroethane [124-73-2] CFC-217 Heptafluoropropyl chloride [422-86-1,2-Dibromoperfluoroethane; 2402

Dibromotetrafluoroethane; 1,2-

Dibromotetrafluoroethane; 1,2-Dibromo-1,1,2,2-Tetrafluoroethane; 1,1,2,2-Tetrafluoro-1,2-

Dibromoethane

CFC-13 Chlorotrifluoromethane [75-72-9]

Halocarbon 13; Trifluoromethyl Chloride

CFC-Pentachlorofluoroethane

Fluoropentachloroethane 111

1-Chloro-1,1,2,2,3,3,3-Heptafluoropropane

Carbon tetrachloride [56-23-5]

Benziinoform;carbona; Carbon Chloride; Carbon Tet; Flukoids; Methane Tetrachloride, Necatorina, Necatorine; Perchloromethane: Refrigerant R10.Tetrachlorocarbon. Tetraloromethane; Tetrafinol; Tetraform; Tetrasol, Univerm; Vermoestricid

1,1,1-Trichloroethane [71-55-6]

AerotheneTT: Alpha-Truchloroethane: Chlorothene; Chlorothene NU; Chlorothene VG; Methyltrichloromethane; Methyl Chloroform: 1,1,1-TCE; Solvent 111; Triethane;

Methyl bromide [74-83-9]

Brom-O-Gas; Brom-O-Gaz; Bromot\methane; Brom-O-Sol; Celfume, Curafume, Dowfume, Dowfume MC-2; Dowfume MC-33, EDCO; Embafume; Halon1001; Haltox; Iscobrome; Kayafume; MB; MeBr; Metafume; Methogas; Meth-o-Gas; Monobromomethane; Profume; Rotox; Terabol, Terr-O-Gas; Terr-O-Gas 100;

HEALTH HAZARD AND REACTIVE GASES

(Approval: Larry McLouth ext. 5286)

Ammonia (NH3)

Arsenic pentafluoride (AsF5)

Arsine (AsH3) Benzene in air

Boron trichloride (BCl3) Boron trifluoride (BF3)

Bromine pentafluoride

Bromine trifluoride (BrF3) 1.3-Butadiene (C4H6)

Carbon monoxide (CO) Carbonyl fluoride (COF2)

Carbonyl sulfide Chlorine (CI2)

Chlorine trifluoride (CIF3)

Cyanogen (C2N2) Cyanogen chloride (CICN)

Diborane (H6B2)

Dichlorosilane (SiH2Cl2)

Fluorine (F2)

Germanium tetrahydride (GeH4)

Hydrogen bromide (HBr) Hydrogen chloride (HCI)

Hydrogen cyanide (HCN) Hydrogen fluoride (HF)

Hydrogen selenide (H2Se) Hydrogen sulfide (H2S) Iodine pentafluoride (IP5)

Methyl bromide (CH3Br) Methyl chloride (CH3CI)

Methyl silane

Nickel carbonyl Ni(CO)4

Nitric oxide (NO)

Nitrogen dioxide (NO2)

Nitrosyl chloride (NOCI)

Nitrogen trifluoride (NF3) Oxygen difluoride (OF2)

Phosgene (COCI2)

Phosphine (PH3)

Phosphorous pentafluoride (PF5) Phosphorous trichloride (PCI3)

Phosphorous trifluoride (PF3)

Selenium hexafluoride

Silane (silicontetrahydride-SiH4) silicon tetrachloride (SiCl4)

Silicon tetrafluoride (SiF4)

Stibine (SbH3) Sulfur dioxide (SO2)

Sulfur tetrafluoride (SF4)

Sulfuryl fluoride (SO2F2)

Tellurium hexafluoride (TeF6)

Tungsten hexafluoride (WF6)

Vinyl chloride (C2H3Cl

REACTIVE, EXPLOSIVE & UNIQUE HAZARD CHEMICALS

(Notification: Larry McLouth ext. 5286)

2-Furaldehyde Beryllium Boron Cesium Dicholorborane Francium Lithium

Sodium Phosphorous, yellow

Picric acid Potassium

Rubidium

CHEMICALS KNOWN TO POSESS LETHAL OR INCAPACITATING TOXICITY

(Notification: Larry McLouth ext. 5286)

Amiton: O,O-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate and corresponding alkylated or protonated salts (78-53-5)

O-Alkyl (H or <C10, incl. cycloalkyl) S-2-dialkyl(Me, Et, n-Pr or i-Pr)-aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonothiolates and corresponding alkylated or

protonated salts O-Alkyl (<C10, incl. cycloalkyl) alkyl (Me, Et, n-Pr or i-Pr)-

phosphonofluoridates O-Alkyl (<C10, incl. cycloalkyl) N,N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidocyanidates

Sarin: O-Isopropyl methylphosphonofluoridate (107-44-8) Soman: O-Pinacolyl methylphosphonofluoridate (96-64-0) Tabun: O-Ethyl N,N-dimethyl phosphoramidocyanidate(77-

81-6) VX: O-Ethyl S-2-diisopropylaminoethyl methyl phosphonothiolate [50782-69-9]

Sulfur mustards:

2-Chloroethylchloromethylsulfide [2625-76-5] Mustard gas: Bis(2-chloroethyl)sulfide [505-60-2] Bis(2-chloroethylthio)methane [63869-13-6]

Sesquimustard:

1,2-Bis(2-chloroethylthio)ethane [3563-36-8] 1,3-Bis(2-chloroethylthio)-n-propane [63905-10-2] 1,4-Bis(2-chloroethylthio)-n-butane [142868-93-7] 1,5-Bis(2-chloroethylthio)-n-pentane [142868-94-8] Bis(2-chloroethylthiomethyl)ether [63918-90-1]

O-Mustard:

Bis(2-chloroethylthioethyl)ether [63918-89-8]

Lewisites:

Lewisite 1: 2-Chlorovinyldichloroarsine [541-25-3] Lewisite 2: Bis(2-chlorovinyl)chloroarsine [40334-69-8] Lewisite 3: Tris(2-chlorovinyl)arsine [40334-70-1]

Nitrogen mustards:

HN1: Bis(2-chloroethyl)ethylamine [538-07-8] HN2: Bis(2-chloroethyl)methylamine [51-75-2] HN3: Tris(2-chloroethyl)amine [555-77-1]

Saxitoxin [35523-89-8]

Ricin [9009-86-3]

Alkyl (Me, Et, n-Pr or i-Pr) phosphonyldifluorides DF: Methylphosphonyldifluoride [676-99-3]

O-Alkyl (H or <C10, incl. cycloalkyl)

O-2-dialkyl(Me, Et, n-Pr or i-Pr)-aminoethyl alkyl(Me, Et, n-Pr or i-Pr) phosphonites and corresponding alkylated or protonated salts

QL: O-Ethyl O-2-diisopropylaminoethyl methylphosphonite [57856-11-8]

Chlorosarin: O-Isopropyl methylphosphonochloridate

[1445-76-7]

Chlorosoman: O-Pinacolyl methylphosphonochloridate [7040-57-5]

PFIB: 1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-1-

propene [382-21-8]

BZ: 3-Quinuclidinyl benzilate (*) [6581-06-2]

Chemicals containing a phosphorus atom to which is bonded on a methyl, ethyl or propyl (normal or iso)

group but not further carbon atoms Methylphosphonyl dichloride [676-97-1] Dimethyl methylphosphonate [756-79-6]

Exemption: Fonofos: O-Ethyl S-

phenylethylphosphonothiolothionate [944-22-9] N,N-Dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidic dihalides

Dialkyl (Me, Et, n-Pr or i-Pr) N,N-dialkyl (Me, Et, n-Pr or i-Pr)-phosphoramidates

Arsenic trichloride [7784-34-1]

2,2-Diphenyl-2-hydroxyacetic acid [76-93-7]

Quinuclidin-3-ol [1619-34-7]

N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl-2-chlorides and corresponding protonated salts

N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-ols and corresponding protonated salts

Exemptions: N,N-Dimethylaminoethanol and corresponding protonated salts [108-01-0]

N,N-Diethylaminoethanol and corresponding protonated salts [100-37-8]

N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-thiols and corresponding protonated salts

Thiodiglycol: Bis(2-hydroxyethyl)sulfide [111-48-8] Pinacolyl alcohol: 3,3-Dimethylbutan-2-ol [464-07-3]

Phosgene: Carbonyl dichloride [75-44-5]

Cyanogen chloride [506-77-4] Hydrogen cyanide [74-90-8]

Chloropicrin: Trichloronitromethane [76-06-2]

Phosphorus oxychloride [10025-87-3] Phosphorus trichloride [7719-12-2] Phosphorus pentachloride [10026-13-8]

Trimethyl phosphite [121-45-9]
Triethyl phosphite [122-52-1]
Dimethyl phosphite [868-85-9]
Diethyl phosphite [762-04-9]
Sulfur monochloride [10025-67-9]
Sulfur dichloride [10545-99-0]
Thionyl chloride [7719-09-7]
Ethyldiethanolamine [139-87-7]
Methyldiethanolamine [105-59-9]
Triethanolamine [102-71-6]

RADIOACTIVE MATERIALS AND ISOTOPES

(Notification: Steve Sohner ext. 6228)

Deuterium Gas (D2)

Heavy water (D20)

Chemicals containing radionuclides including

Tritium [H-3]

Natural uranium [u]

Depleted uranium, enriched uranium

Thorium [Th]

Protactinium [Pa]

Transuranics [atomic number greater than 92]

Radioactive sealed sources

Instruments and articles containing radioactive sealed sources

Special nuclear material [SNM]) including

Gas chromatographs with electron capture devices

Liquid scintillation counters

Neutron moisture probes

Neutron soil density guage

Signs containing tritium

Static eliminators

EQUIPMENT GENERATING LASER, RADIOWAVE, MICROWAVE AND IONIZING RADIATION

(Notification: Ted deCastro ext. 5256)

Class 3 and 4 lasers

Microwave sources (excluding consumer products such as microwave ovens)

Radiowave sources

X ray sources and equipment including accessory devices